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Amendment to the Abstract:

~~The invention relates to~~ In a method of elastography, ~~whose~~ diagnostic performance is improved in that the variation in time of the excursion whereby a region responds to excitation by mechanical oscillations is analyzed and the non-linear distortions are measured. Such non-linear distortions are a measure of the non-linear elastic properties of the region and constitute a diagnostically relevant item of information.

Fig. 4